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THAT WHICH IS CLAIMED:

- 1. An isolated nucleic acid molecule selected from the group consisting of:
- (a) a polynucleotide sequence encoding a polypeptide comprising the amino acid sequence of SEQ ID NO:2;
- (b) a polynucleotide sequence comprising at least 20 contiguous nucleotide bases of SEQ ID NO:1 or SEQ ID NO:3;
- (c) a polynucleotide sequence comprising the cDNA insert of Patent Deposit No. PTA-1688, wherein said sequence encodes a polypeptide with PR1-C10-like activity;
- (d) a polynucleotide sequence having at least 85% sequence identity to SEQ ID NO:1 or SEQ ID NO:3, wherein said sequence is at least 25 nucleotides in length;
- (e) a polynucleotide sequence which hybridizes under high stringency conditions to a polynucleotide having the sequence set forth in SEQ ID NO:1;
 - (f) a polynucleotide sequence comprising the sequence set forth in SEQ ID NO:1 or SEQ ID NO:3; and,
 - (g) a polynucleotide sequence complementary to a polynucleotide of a), b), c), d), e), or f).
 - 2. A vector comprising at least one nucleic acid molecule of claim1.
 - 3. A recombinant expression cassette comprising a nucleic acid molecule of claim 1 operably linked to a promoter.
 - 4. A host cell comprising the vector of claim 2.
 - 5. A transgenic plant cell comprising the vector of claim 2.

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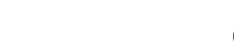
- 6. A transgenic plant comprising the vector of claim 2.
- 7. The transgenic plant of claim 6, wherein the plant is selected from the group consisting of maize, soybean, sunflower, sorghum, canola, wheat, alfalfa, cotton, rice, barley, and millet.
 - 8. Transformed seed from the transgenic plant of claim 6.
- 9. An isolated polypeptide comprising an amino acid sequence selected from the group consisting of:
 - (a) a polypeptide comprising an amino acid sequence having at least 25 contiguous amino acids of SEQ ID NO:2;
 - (b) a polypeptide comprising the amino acid sequence encoded by the cDNA insert of the plasmid deposited as Patent Deposit No. PTA-1688;
 - (c) a polypeptide having at least 70% sequence identity to SEQ ID NO:2, wherein said polypeptide retains PR1-C10-like activity;
 - (d) a polypeptide comprising the amino acid sequence encoded by a nucleic acid sequence of SEQ ID NO:1 or SEQ ID NO:3;
- (e) a polypeptide sequence comprising the amino acid sequence set 20 forth in SEQ ID NO: 2; and,
 - (f) a polypeptide sequence encoded by a nucleotide sequence that hybridizes under stringent conditions to a nucleotide sequence set forth in SEQ ID NO:1 or SEQ ID NO:3, and said polypeptide retains PR1-C10-like activity.
- 25 10. A method of modulating the level of PR1-C10 polypeptide in a plant, comprising:
 - (a) introducing into a plant cell a recombinant expression cassette comprising a nucleotide sequence operably linked to a promoter, wherein said nucleotide sequence is selected from the group consisting of:

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- i) a polynucleotide sequence encoding a polypeptide comprising the amino acid sequence of SEQ ID NO:2;
- . ii) a polynucleotide sequence comprising at least 20 contiguous nucleotide bases of SEQ ID NO:1 or SEQ ID NO:3;
- 5 iii) a polynucleotide sequence comprising the cDNA insert of Patent Deposit No. PTA-1688, wherein said sequence encodes a polypeptide with PR1-C10-like activity;
 - iv) a polynucleotide sequence having at least 85% sequence identity to SEQ ID NO:1 or SEQ ID NO:3, wherein said sequence is at least 25 nucleotides in length;
 - v) a polynucleotide sequence which hybridizes under high stringency conditions to a polynucleotide having the sequence set forth in SEQ ID NO:1;
 - vi) a polynucleotide sequence comprising the sequence set forth in SEQ ID NO:1 or SEQ ID NO:3; and,
 - vii) a polynucleotide sequence complementary to a polynucleotide of a), b), c), d), e), or f);
 - (b) culturing the plant cell under plant growing conditions; and,
 - (c) inducing expression of said polynucleotide for a time sufficient to modulate the level of the PR1-C10 polypeptide in said plant cell.
 - 11. The method of claim 10, wherein the plant is selected from maize, soybean, sunflower, sorghum, canola, wheat, alfalfa, cotton, rice, barley, and millet.
- 12. The method of claim 11, wherein the level of the PR1-C10 polypeptide is increased.
 - 13. The method of claim 11, wherein the level of the PR1-C10 polypeptide is decreased.

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